UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/558,363	11/25/2005	Yasushi Okubo	KON-2053	3845
20311 LUCAS & MEI	7590 03/17/200 RCANTI. LLP	EXAMINER		
475 PARK AV	*	HON, SOW FUN		
15TH FLOOR NEW YORK, N	NY 10016		ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			03/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	oplication No.	Applicant(s)				
		1	0/558,363	OKUBO ET AL.	OKUBO ET AL.			
		E	kaminer	Art Unit				
		S	OPHIE HON	1794				
Period fo	The MAILING DATE of this commun or Reply	ication appear	s on the cover sheet with th	ne correspondence a	ddress			
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE Masions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. catutory period will ap will, by statute, cau	OF THIS COMMUNICAT In no event, however, may a reply by ply and will expire SIX (6) MONTHS se the application to become ABAND	ION. e timely filed from the mailing date of this DNED (35 U.S.C. § 133).				
Status								
	Responsive to communication(s) file	ad on 02 Daca	mher 2008					
•	Responsive to communication(s) filed on <u>02 December 2008</u> . This action is FINAL . 2b) This action is non-final.							
3)		<i>′</i> —		prosecution as to th	e merits is			
<u>ا</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 1-21 is/are pending in the	application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-21</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restrict	ction and/or ele	ection requirement.					
Applicati	on Papers							
9)□	The specification is objected to by th	e Examiner						
•	-		ed or b) abjected to by t	ne Examiner				
ات/0	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim	for foreign pri	ority under 35 U.S.C. & 119	9(a)-(d) or (f)				
		Tor Torongri pri	only under 60 0.0.0. 3 110)(a) (a) or (i).				
۵)	<i>,</i> — <i>,</i> — ,—							
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
			•					
Attachmen	t(s)							
_	e of References Cited (PTO-892)		4) Interview Sumn	nary (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (F	PTO-948)	Paper No(s)/Ma	il Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:								

DETAILED ACTION

Response to Amendment

Withdrawn Rejection

1. The 35 U.S.C. 112, 2nd paragraph rejection of claim 6 is withdrawn due to Applicant's amendment dated 12/02/08.

Response to Request for Reconsideration

Repeated Rejections

2. The 35 U.S.C. 103(a) rejections of claims 1-21 over Yamada in view of Maeda as the primary combination of references are repeated for the same reasons previously of record in the Office action dated 09/03/08.

Response to Arguments

- 3. Applicant's arguments have been fully considered but they are not persuasive.
- 4. Applicant argues that Yamada is silent with respect to plasticizer and does not teach if plasticizers should or should not be used, while Machell specifically teaches that 6 to 20% is used, [which is outside the claimed range of less than 1%].

Applicant is respectfully apprised that Yamada is the primary reference that teaches the cellulose ester-containing composition of the transparent film for display substrate, which does not contain any plasticizer, where the transparent film is drawn 6 percent (factor of 1.06, [0110]) in a lateral direction (transverse, [0110]), which is within the claimed range of 3 through 100 percent. Machell is the secondary reference that

teaches that a transparent film containing a cellulose ester is drawn from 50 to 100 percent (stretch ratio in both directions, column 10, lines 5-17), which is within the claimed range of 3 through 100 percent, in both the lateral direction and in the conveyance direction (transverse direction and direction of travel of the web, column 10, lines 5-11), for the purpose of providing the desired superior surface properties (column 10, lines 29-45) which include surface smoothness and optical uniformity as well as dimensional stability (column 2, lines 25-32) suited for a transparent film for optical substrate (photographic film support, column 2, lines 5-15).

To summarize, Machell teaches that the transparent film of Yamada, needs to additionally be drawn in the conveyance direction and not just in the lateral direction, in order to obtain superior surface smoothness and optical uniformity, as befits a transparent film for an optical substrate of which the display substrate of Yamada is a species. The modification by Machell thus provides an improvement to the transparent film for optical display substrate of Yamada.

As such, the prior art rejections over Yamada, as modified by Machell, stand.

5. Applicant argues that it is improper [in the product claims] to combine Machell and Yamada since they are directed to different methods for making cellulose ester film, where Yamada teaches a solution cast method, and Machell teaches a melt cast method [and are thus non-analogous art].

Applicant is respectfully apprised that the final product is the cellulose estercontaining transparent film. Both Yamada and Machell are directed to cellulose estercontaining transparent films and are thus analogous art. As stated above, Yamada is

Page 4

the primary reference that teaches the cellulose ester-containing transparent film composition that does not contain any plasticizer, where the transparent film is drawn in a lateral direction. Machell is the second reference that teaches that a cellulose ester-containing transparent film needs to additionally be drawn in the conveyance direction, not just in the lateral direction, in order to obtain superior surface smoothness and optical uniformity, as befits a transparent film for an optical substrate, of which the display substrate of Yamada is a species. The modification by Machell thus provides an improvement to the transparent film for optical display substrate of Yamada.

6. Applicant argues that it is improper [in the method claims] to combine Machell and Yamada since they are directed to different methods for making cellulose ester film, where Yamada teaches a solution cast method, and Machell teaches a melt cast method [and are thus non-analogous art].

Applicant is respectfully apprised Yamada is the primary reference that teaches the method for manufacturing a transparent film for display substrate (displaying element, [0001]) according to a casting film forming method comprising the steps of: casting the dope ([0111]) containing: a cellulose ester, and no plasticizer (acetate propionate, [0110]) i.e. in a zero amount which is within the claimed range of less than 1 percent, onto a casting support member to form a web (cast onto a stainless steel belt, [0111]). Yamada teaches the step of drawing the formed web (factor of 1.06, [0110]) in a width direction (transverse, [0110-0111]). Yamada fails to teach that the web is also drawn in a conveyance direction. Machell is the secondary reference that teaches that in the drawing step, the formed web of a cellulose ester-containing transparent film

Application/Control Number: 10/558,363

Art Unit: 1794

needs to be drawn not just in the width direction, but also in the conveyance direction (transverse direction and direction of travel of the web, column 10, lines 5-11), for the purpose of providing the desired superior surface properties (column 10, lines 29-45) which include surface smoothness and optical uniformity as well as dimensional stability (column 2, lines 25-32) suited for a transparent film for optical substrate (photographic film support, column 2, lines 5-15).

Page 5

To summarize, the modification made by Machell is to the drawing step of the already formed web in the method for manufacturing the transparent film of Yamada, where both Machell and Yamada are directed to the post-treatment of an already formed web, and are thus analogous art. Machell teaches that the drawing step in the method for manufacturing the transparent film of Yamada, needs to include the drawing of the formed web in the conveyance direction and not just the drawing of the formed web in the lateral direction, in order to obtain a transparent film with superior surface smoothness and optical uniformity, as befits a transparent film for an optical substrate, of which the display substrate of Yamada is a species. The modification by Machell thus provides an improvement to the post-treatment step of the already formed web in the method of manufacturing the transparent film for optical display substrate of Yamada.

7. Applicant argues that neither Yamada nor Machell would lead one of skill in the art to provide high Tg and low linear coefficient as shown in Table 1 of Applicant's specification.

Application/Control Number: 10/558,363 Page 6

Art Unit: 1794

Applicant is respectfully apprised that Ota is the secondary reference that teaches that a display substrate requires a glass-transition temperature within a range of 150 degrees Celsius or more (abstract), which contains the claimed range of 180 degrees Celsius or more, and requires a coefficient of linear expansion within a range of 80 ppm/degrees Celsius or less (abstract) in both MD and TD directions, which contains the claimed range of from 5 through 50, for the purpose of providing the desired dimensional stability during processing or use (substrate film, column 1, lines 13-17).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/558,363 Page 7

Art Unit: 1794

Any inquiry concerning this communication should be directed to Sow-Fun Hon

whose telephone number is (571)272-1492. The examiner can normally be reached

Monday to Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Keith Hendricks, can be reached on (571)272-1401. The fax phone number

for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sophie Hon/

Examiner, Art Unit 1794

/KEITH D. HENDRICKS/

Supervisory Patent Examiner, Art Unit 1794